SEQUENCE LISTING

<110> Frudakis, Tony N.
Reed, Steven G.
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Retter, Marc W.
Wang, Aijun
Skeiky, Yasir A.W.

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND DIAGNOSIS OF BREAST CANCER

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<140> US

<141> 2000-06-08

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ennneement neeenennnt tenentnenn tnteennenn nntennennn ennnnentnn
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conntacnte ntnnnennnt centetntnn cetennennt enetnenent thteteeten
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                                                                        900
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gcccctcaa attataacct ttccnaaaca aannggttcn aaggtggttt gnttccggtg
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                                                                       1080
                                                                       1140
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ttctgacact gctcatgtct ccaggcatct atttgcactt taggaggtgt cgtgggagac
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aggtgggctt ggggtgagtg ggtgggggaa gtgtgtgtgc aaagggggtg tnaatgtnta
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                                                                         240
tgcgtgtgag catgagtgat ggctagtgtg actgcatgtc agggagtgtg aacaagcgtg
cgggggtgtg tgtgcaagtg cgtatgcata tgagaatatg tgtctgtgga tgagtgcatt
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tgaaagtctg tgtgtgtgcg tgtggtcatg anggtaantt antgactgcg caggatgtgt
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tctgatgcat acaccagctt gtaaattgaa taaatgtctc taatactatg tgctcacaat
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agracectic tegecacous gongacous auditament services 55 visits	

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<211> 419

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<213> Homo sapien

<220>

<221> misc_feature

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ttgtttgtaa ctcgaaggat aaatgcttga gaggatggat	accetataaa	tatgtacacc	240
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סעב כווג>			

<211> 596

<212> DNA

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attetgacat atgetaaaac atggatgaac ettgaagact ttatgataag taaaagaage	180
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aagaaatate ettgattett ettttteeea tetaetteae ttetaattea ttagtaaata atetgtttea gaaaaceaaa eaceteatgt teteaeteat aagggggagt tgaacaatga	240 300
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<211> 492	
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tgtgctatta tgatgatgaa gaacctctct anaagaaaac ataaccaaag aaacaaagaa	300
aattcctgcn aatgtttaat gctatagaag aaattaacaa aaacatatat tcaatgaatt	360
cagaaaagtt agcaggtcan aagaaaacaa atcaaagacc agaataatcc cattttagat	420
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tggattacat acttctaagc cattaggaga ctctatgtta aaccaaaagg aaatgttact	180
agatetteat ttgateaata ggatgtgata ateateatet ttetgeteta atggaaaagt	240
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ctaccaactt ctggcgataa gggccaccct tccctctgta cttacagtcc catttcatac	420
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ta	482
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<211> 519	
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<223> n = A,T,C or G	
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aagcettgea gttgagatag aggaagggea etgteteetg eetgeeeetg ggaactgaat	180 240
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ttaaaanttg tttatcccgc cncccnattt ccccccaac tttccaaaac ccgaaaccnt
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atattcttga caaagctagc atagagacag caattttaca caaggtattt ttcacctgtt
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taataacagt ggttttccta cacccatagg gtgccaccaa gggaggagtg cacagttgca
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gaaacaaatt aagatactga agacaacact acttaccatt teeegtatag etaaccacca
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                                                                        180
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      <211> 355
      <212> DNA
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acctggteet ceaggettae caggteetea aggeecaaag ggtaacaaag getetaetgg
acccgctggc cagaaaggtg acagtggtct tccagggcct cctgggcctc caggtccacc
                                                                        240
                                                                        300
tggtgaagtc attcagcctt taccaatctt gtcctccaaa aaaacgagaa gacatactga
aggcatgcaa gcagatgcag atgataatat tettgattae teggatggaa tggaagaaat
                                                                        360
atttggttcc ctcaattccc tgaaacaaga catcgagcat atgaaatttc caatgggtac
                                                                        420
                                                                        434
tcagaccaat ccaa
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<210> 250	
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<213> Homo sapien	
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tcactagtta ttattattta ttttattttt gagatgaagt ctcgctttgt ctcccaggc	
ggagageggt ggtgegatet tggetetetg caaceceege etcaageaat teteetgte	
tagcctcgcg ggtagatgga attacaggcg cccaccgcca tgcccaacta attttttg	
gtcttcagta gagacagggt ttcgccatgt tgggcaggct ggtcttgaac tcctgacct	c 300
nagtgatetg cecteetegg ceteacaaag tgetggaatt acaggeatgg getgetgea	
ccagtcaact tctcactagt tatggcctta tcattttcac cacattctat tggcccaaa	
aaaaaaaaan	430
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ggagtetgtg ecgaggtgca getgrtgcag tetggagcag aggtgaaaaa gteegggga	g 120
tctctgaaga tctcctgtaa gggttctgga tacaccttta agatctactg gatcgcctg	g 180
gtgcgccagt tgcccgggaa aggcctggag tggatggggc tcatctttcc tgatgactc	t 240
gataccagat acagecegte ettecaagge caggteacea teteagtega taagteeat	c 300
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caggeteete tgetetaace aggettetgg gacagtatta gaaaaggatg teteaacaa	g 120
tatgtagatc ctgtactggc ctaagaagtt aaactgagaa tagcataaat cagaccaaa	
ttaatggtcg ttgagacttg tgtcctggag cagctgggat aggaaaactt ttgggcagc	
agaggaagaa ctgcctggaa gggggcatca tgttaaaaat tacaagggga acccacacc	
ggcccccttc ccagctctca gcctagagta ttagcatttc tcagctagag actcacaac	t 360
tccttgctta gaatgtgcca ccggggggag tccctgtggg tgatgaggct ctcaagagt	g 420
agagtggcat cctatcttct gtgtgcccac aggagcctgg cccgagactt agcaggtga	
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<211> 507	

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      <222> (1)...(507)
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tgaggccgca gtgagccggg accacgccac tacactccag cctggggcat agagtgagac
                                                                       120
                                                                       180
cctccaagac agaaaagaaa agaaaggaaa ggaaaagggaa agggaaaagg aaaaggaaaa
ggaaaaggaa aaggaaaaga caagacaaaa caagacttga atttggatct cctgacttca
                                                                       240
attttatgtt ctttctacac cacaattcct ctgcttacta agatgataat ttagaaaccc
                                                                       300
                                                                       360
ctcgttccat tctttacagc aagctggaag tttggtcaag taattacaat aatagtaaca
aatttgaata ttatatgcca ggtgtttttc attcctgctc tcacttaatt ctcaccactc
                                                                       420
tgatataaat acaattgctg ccgggtgtgg tggctcatgc ctgtaatccc ggcactttgg
                                                                       480
                                                                       507
gagaccgagg tgggcggats gcaacaa
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      <211> 222
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(222)
      \langle 223 \rangle n = A,T,C or G
      <400> 254
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actggccaca ctttctcctg ccgccttcct caaagctgaa gacacacaga gcaaggcgct
                                                                       120
                                                                       180
totgttttac tocccaatgg taactccaaa ccatagatgg ttagctnccc tgctcatctt
                                                                       222
tccacatccc tgctattcag tatagtccgt ggaccaatcc aa
      <210> 255
      <211> 463
      <212> DNA
      <213> Homo sapien
      <400> 255
                                                                        60
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gggagggagc acattaaggt ggccatgaag tttgttggaa gaagtgactt ttgaacaagg
                                                                       120
ccttggtgtt aagagctgat gagagtgtcc cagacagagg ggccactggt acaatagacg
                                                                       180
                                                                       240
agatgggaga gggcttggaa ggtgtgcgaa ataggaagga gtttgttctg gtatgagtct
                                                                       300
agtgaacaca gaggcgagag gccctggtgg gtgcagctgg agagttatgc agaataacat
                                                                       360
taggccctgt gggggactgt agactgtcag caataatcca cagtttggat tttattctaa
gagtgatggg aagccgtgga aagggggtta agcaaggagt gaaattatca gatttacagt
                                                                       420
                                                                       463
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<211> 291

<211> 262 <212> DNA <213> Homo sapien <400> 256 60 ttggattggt caacctgctc aactctacyt ttcctccttc ttcctaaaaa attaatgaat ccaatacatt aatgccaaaa cccttgggtt ttatcaatat ttctgttaaa aagtattatc 120 180 cagaactgga cataatacta cataataata cataacaacc ccttcatctg gatgcaaaca tctattaata tagcttaaga tcactttcac tttacagaag caacatcctg ttgatgttat 240 262 tttgatgttt ggaccaatcc aa <210> 257 <211> 461 <212> DNA <213> Homo sapien <220> <221> misc_feature <222> (1)...(461) <223> n = A, T, C or G<400> 257 60 gnggnnnnnn nnncaatteg actengttee entggtanee ggtegacatg geegegggat 120 taccgcttgt nnctgggggt gtatggggga ctatgaccgc ttgtagctgg gggtgtatgg gggactatga ccgcttgtag mtggkggtgt atgggggact atgaccgctt gtcgggtggt 180 cggataaacc gacgcaaggg acgtgatcga agctgcgttc ccgctctttc gcatcggtag 240 300 ggatcatgga cagcaatatc cgcattcgyc tgaaggcgtt cgaccatcgc gtgctcgatc 360 aggegacegg egacategee gacacegeae geegtacegg egegeteate egeggteega tecegettee caegegeate gagaagttea eggteaaceg tggecegeae gtegacaaga 420 461 agtcgcgcga gcagttcgag gtgcgtacct acaagcggtc a <210> 258 <211> 332 <212> DNA <213> Homo sapien <220> <221> misc_feature <222> (1)...(332) <223> n = A, T, C or G<400> 258 tgaccgcttg tagctggggg tgtatggggg actacgaccg cttgtagctg ggggtgtatg 60 ggggactatg accgettgta getgggggtg tatgggggae tatgaceget tgtagetggg 120 ggtgtatggg ggactaggac cgcttgtagc tgggggtgta tgggggacta tgaccgcttg 180 240 tagctggggg tgtatggggg actacgaccg cttgtagctg ggggtgtatg ggggactatg accgcttgta nctgggggtg tatgggggac tatgaccgct tgtgctgcct gggggatggg 300 332 aggagagttg tggttgggga aaaaaaaaa aa <21,0> 259

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<212> DNA
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      <221> misc_feature
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      <223> n = A, T, C \text{ or } G
      <400> 259
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                                                                        60
                                                                       120
gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt
                                                                       180
gaccgcttgt gaccgcttgt nacngggggt gtctggggga ctatgannga ntgtnactgg
gggtgtctgg gggnctatga nngantgtna cngggggtgt ctgggggact atganngact
                                                                       240
gtgcnncctg ggggatcnga ggagantngn ggntagngat ggttngggan a
                                                                       291
      <210> 260
      <211> 238
      <212> DNA
      <213> Homo sapien
      <400> 260
                                                                        60
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tttgaggtca gggatgaaaa ctagaatttt tttctttttt tttgcctgag aaacttgctg
                                                                       120
ctctgaagag gcccatgtat taattgcttt gatcttcctt ttcttacagc cctttcaagg
                                                                       180
gcagagccct ccttatcctg aaggaatctt atccttagct atagtatgta ccctctta
                                                                       238
    <210> 261
      <211> 746
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(746)
      <223> n = A, T, C \text{ or } G
      <400> 261
                                                                        60
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                                                                       120
tgttctaagc ctttaaacgt actaattcat ttaatgctca taatcacttt agaaggtggg
tactagtatt agtctcattt acagatgcaa catgcaggca cagagaggtt aattaacttg
                                                                       180
cccaaggtaa cacagctaag aaatagaaaa aatattgaat ctggaaagtt gggcttctgg
                                                                       240
                                                                       300
gtaacccaca gagtetteaa tgageetggg geeteactea gtttgetttt acaaagegaa
tgagtaacat cacttaattc agtgagtagg ccaaatggag gtcagctacg agtttctgct
                                                                       360
gttcttgcag tggactgaca gatgtttaca acgtctggcc atcagtwaat ggactgatta
                                                                       420
                                                                       480
tcattgggaw gtgggtgggc tgaatgttgg ccagtgaagt ttattcawgc catattttta
tgtttaggat gacttttggc tggtcctagg gcaagctctg tctgscacgg aacacagaat
                                                                       540
                                                                       600
wacacaggga ccccctcaat ttctggtgtg gctagaacca tgaaccactg gttgggggaa
                                                                       660
caageggtea aaacetaagt geggeegget ggeagggtee aeceatatgg ggaaaaetee
                                                                       720
cnacgcgttt ggaatgcctn agctngaatt attctaanag ttgtccncnt aaaattagcc
                                                                       746
tgggcgttaa tcangggtcn naagcc
```

<213> Homo sapien

```
<210> 262
      <211> 588
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(588)
      <223> n = A, T, C \text{ or } G
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                                                                        60
tttgtctgtt tcttctttct cttttccttc ccatatcctc ctaatttacg tttgacttgt
                                                                        120
ttgctgagga ggcaggagct agagactgct gtgagctcat aggggtggga agtttatcct
                                                                        180
tcaagtcccg cccactcatc actgcttctc accttcccct gaccaggctt acaagtgggt
                                                                        240
tettgeetge ttteeetttg gaeccaacaa geecetgtaa tgagtgtgea tgaetetgae
                                                                        300
agetgtggae teagggteet tggetacage tgecatgtaa aatateteat eeagtteteg
                                                                        360
caaattgtta aaataaccac atttcttaga ttccagtacc caaatcatgt ctttacgaac
                                                                        420
                                                                        480
tgctcctcac acccagaagt ggcacaataa ttcttgggga attattactt tttttttct
ctctnttnnc gnnngnnnng gnnngnccag gaattaccac nttggaagac ctggccngaa
                                                                        540
                                                                        588
tttattatan aggggagccg attntttttc ctaacacaaa gcgggtca
      <210> 263
      <211> 730
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(730)
      <223> n = A,T,C or G
      <400> 263
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agactgcaaa aagattaaat gtaaaagttg tcttgtatac agtaatgttt aagataccta
                                                                        120
ttanatttat aaatggaaaa ttagggcatt tggatataca agttgaaaat tcaggagtga
                                                                        180
ggttgggctg gctgggtata tactgaaaac tgtcagtaca cagatgacat ctaaaaccac
                                                                        240
aaatctggtt ttattttagc agtgatatgt gtcactccca caaaagcctt cccaattggc
                                                                        300
                                                                        360
ctcagcatac acaacaagtc acctccccac agccctctac acataaacaa attccttagt
ttagttcagg aggaaatgcg cccttttcct tccgctctag gtgaccgcaa ggcccagttc
                                                                        420
tcgtcaccaa gatgttaagg gaagtctgcc aaagaggcat ctgaaaggaa ataaggggaa
                                                                        480
tgggagtgac cacaaaggaa agccaaggan aaactttgga gaccgtttct aganccctgg
                                                                        540
catttcacaa caaaactcng gaacaaacct tgtctcatca atcatttaag cccttcgttt
                                                                        600
ggannagact ttctgaactg ggcgctgaac ataancetca ttgaatgtet teacagtete
                                                                        660
ccagctgaag gcacaccttg ggccagaagg ggaatcttcc aggtcctcaa nacagggctc
                                                                        720
                                                                        730
gccctttgnc
      <210> 264
      <211> 715
      <212> DNA
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<213> Homo sapien

```
<220>
      <221> misc feature
      <222> (1)...(715)
      <223> n = A, T, C or G
      <400> 264
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tacacttaat qtqqttataq atqctqttga gcttacttct accaccttgc tatttctccc
                                                                       120
gtctcttttt tgttcctttt ctcttctttt cctcccttat tttataattg aattttttag
                                                                       180
gattctattt tatatagatt tatcagctat aacactttgt attcttttgt tttgtggttc
                                                                       240
ttctgtcatt tcaatgtgca tcttaaactc atcacaatct attttcaaat aatatcatat
                                                                       300
aaccttacat ataatgtaag aatctaccac catatatttc catttctccc ttccatccta
                                                                       360
tgtntgtcat atttttcct ttatatatgt tttaaagaca taatagtata tgggaggttt
                                                                       420
ttgcttaaaa tgtgatcaat attccttcaa ngaaacgtaa aaattcaaaa taaatntctg
                                                                       480
                                                                       540
tttattctca aatnnaccta atatttccta ccatntctna tacntttcaa gaatctgaag
gcattggttt tttccggctt aagaacctcc tctaaagcac tctaagcaga attaagtctt
                                                                       600
ctgggagagg aattctccca agcttgggcc ttnanntgta ctccntnang gttaaanttt
                                                                       660
ggccgggaaa tagaaattcc aagttaacag gntanttttt nttttnttn tcncc
                                                                       715
      <210> 265
      <211> 152
      <212> DNA
      <213> Homo sapien
      <400> 265
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                                                                        60
tgattcccat gaagaggtta tgatttctaa agaaaacatg gctactatac tatcaatcag
                                                                       120
                                                                       152
ggttaaatct tttttttttg agacggagtt ta
      <210> 266
      <211> 193
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(193)
      <223> n = A, T, C or G
      <400> 266
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                                                                        60
aagggactgt ttccgtaact gttgtgggta ttcacgacca ggcttctaaa cctcttaaaa
                                                                       120
ctccccaatt ctggtgccaa cttggacaac atgcttttt tttttttt tttttttn
                                                                       180
                                                                       193
gagacggagt tta
      <210> 267
      <211> 460
      <212> DNA
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<210> 268 <211> 533 <212> DNA <213> Homo sapien	
<220> <221> misc_feature <222> (1)(533) <223> n = A,T,C or G	
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<210> 269 <211> 50 <212> DNA <213> Homo sapien	
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<pre><400> 270 tgttgcgatc caaataaccc accagettet tgcacaette geagaageca cegteetttg getgagteac gtgaacggte agtgcaagea geegegtgee agageagagg tgcageatge tgcacaecag etcagggetg accteeteca geaggatgga caggatggag etgeegtacg tgtecaecae etcetggeae tetteegaea gggaettegg cagettegag eacattttgt caaaagegte gagtatteet tteteagtet tgttgttgte aatcagettg gteaecteet teaecaggaa tteaeacaee teaeagtaaa cateagaett tgetgggaee tegtgettet</pre>	60 120 180 240 300 360

taatgggete caccagttee agggeaggga tgacattett ggaggeeact ttggegggga ceagagtetg catgggeate tettteacet catcacagaa cecaaccage geacagatet cettgggttg catgtgeate ateatetggg ategeaaca	420 480 519
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gaacagcaca atggcaagac cattttcgcc tactttacgg gttctaagga cgccgggggg	180
aaaagctggt gccccgactg cgtgcaggct gaaccagtcg tacgagaggg gctgaagcac	240 300
attagtgaag gatgtgttt catctactgc caagtaggag aagagcctta ttggaaagat ccaaataatg acttcagaaa aaacttgaaa gtaacagcag tgcctacact acttaagtat	360
ggaacacete aaaaactggt agaatetgag tgtetteagg ccaacetggt ggaaatgttg	420
ttctctgaag attaagattt taggatggca atcaaga	457
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<211> 102 <212> DNA	
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400 070	
<400> 272 ttttttttt ttgggcaaca acctgaatac cttttcaagg ctctggcttg ggctcaagcc	60
cgcaggggaa atgcaactgg ccaggtcaca gggcaatcaa ga	102
<210> 273	
<211> 455 <212> DNA	
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-	
<220>	
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$\langle 223 \rangle \text{ n = A,T,C or G}$	
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gtttaagtct tcggccgaag ttaatctcgt gtttttggca atcaacaggt ttaagtcttc	180
ggccgaagtt aatctcgtgt ttttggcaat caacaggttt aagtcttcgg ccgaagttaa	240
totogtgttt ttggcaatca acaggtttaa gtottoggco gaagttaato togtgttttt	300
ggcaatcaag aggtttaagt cttcggccga agttaatctc gtgtttttgg caatcaacag	360
gtttaagtet teggeegaan ttaatetegt gtttttggea ateaacaggt ttaantette	420 455
ggccgaagtt aatctcgtgt ttttggcaat caana	433
<210> 274	
<211> 461	
<212> DNA	

<213> Homo sapien

<400> 274					
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tggcaaacca aatccagcag c					120
tccctgggat gcaaggctgg t					180
acagaaccaa agacaaaaac c					240
aattcaacag cccttcatgc t					300
caaaataata agagctattt a	atgacaaacc	cacagccaat	atcatactga	atgggcaaag	360
actggaagca ttccctttga a	aegaeaaaee	aagacaagga	taccetetet	caccactcct	420
attcaacata qtattggaag t				J	461
accedacata graceggaag	cccggccag	3300000000	-		
<210> 275					
<211> 729					
<212> DNA					
<213> Homo sapier	1				
(213) Homo Bapier	•				
<220>					
<221> misc featur	re				
<222> (1) (729)					
$\langle 223 \rangle$ n = A,T,C o					
12232 11 = 11,270					
<400> 275					
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catgaaaaca taggaaggtg	gctgttacag	caaacatttc	agatagacga	atcggccaag	120
ctcccaaac cccaccttca	cagcctcttc	cacacqtctc	ccanagattg	ttgtccttca	180
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339

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<212> DNA

<213> Homo sapien

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<211> 329

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<213> Homo sapien

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			180			Asn		185					190		
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225					230					235					Tyr 240
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	_		260			Lys		265					270		
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<213> Homo sapien

<220>

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<213> Homo sapien

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<400> 304

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Leu	Asp	Arg 195	Arg	Cys	Gln	Leu	Asn 200	Val	Leu	Asp	Asn	Lys 205	Lys	Arg	Thr
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Thr	Thr	Leu	His	Tyr 245	Ala	Ile	Tyr	Asn	Glu 250	Asp	Lys	Leu	Met	Ala 255	Lys
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Lys	Phe 290	Leu	Ile	Lys	Lys	Lys 295	Ala	Asn	Leu	Asn	Ala 300	Leu	Asp	Arg	Tyr
Gly 305	Arg	Thr	Ala	Leu	Ile 310	Leu	Ala	Val	Cys	Cys 315	Gly	Ser	Ala	Ser	Ile 320
Val	Ser	Leu	Leu	Leu 325	Glu	Gln	Asn	Ile	Asp 330	Val	Ser	Ser	Gln	Asp 335	Leu
Ser	Gly	Gln	Thr 340	Ala	Arg	Glu	Tyr	Ala 345	Val	Ser	Ser	His	His 350	His	Val
Ile	Cys	Gln 355		Leu	Ser	Asp	Tyr 360	Lys	Glu	Lys	Gln	Met 365	Leu	Lys	Ile
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<212> PRT

<213> Homo sapien

<400> 305

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 Pro
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 Trp
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 Cys
 Arg
 Cys
 Phe

 Pro
 Phe
 Gly
 Leu
 Arg
 Ser
 Lys
 Met
 Gly
 Lys
 Trp
 Cys
 Cys
 Arg
 Cys
 Phe

 Pro
 Cys
 Cys
 Arg
 Glu
 Ser
 Gly
 Lys
 Ser
 Asn
 Val
 Gly
 Trp
 Ser
 Lys
 Trp
 Asp
 A

Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His 135 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met 150 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala 170 165 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu 185 180 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr 200 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met 220 215 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn 235 230 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys 250 245 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly 265 260 Leu Thr Pro Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val 285 280 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr 295 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile 315 310 Val Ser Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu 330 325 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val 345 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile 360 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu 380 375 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys 395 390 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu 410 405 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn 425 420 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro 440 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu 455 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu 475 470 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp 490 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu 505 500 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys 520 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly

540 535 530 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser 555 550 Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr 570 565 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln 585 580 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln 600 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys 620 615 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile 635 630 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu 650

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<212> PRT

<213> Homo sapien

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Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met

Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn

										225					240
225				_	230		_		~1	235	T	T 011	Mot	- ר ת	
				245			Tyr		250					255	
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Leu	Thr			Leu	Leu	Gly	Val		Glu	Gln	Lys		Gln	Val	Val
		275	_		_	_	280		.	7	71.	285	7 an	7 ~~	Tree
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305					310					315			_		320
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Ser	Ser 370		Asn	Ser	Asn	Pro 375	Glu	Gln	Asp	Leu	Lys 380	Leu	Thr	Ser	Glu
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Leu	Thr	Asn		Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro
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Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu
			500					505					510	_	_
	_	515					520					525			Asp
Gly	Asp	Arg	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile	Glu	Glu	Met	Lys	Lys
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His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu			Thr	Asn	Gly	Ala
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				565					570					575	
Thr	Pro	Glu	Ser 580		Gln	Phe	Pro	Asp 585		Glu	Asn	Glu	Glu 590	Tyr	His
Ser	Asp	Glu 595	Gln		Asp	Thr	Gln 600		Gln	Phe	Cys	Glu 605	Glu	Gln	Asn
ጥኮ~	ינט			His	Asn	Glu			ı Ile	His	Glu			Gln	Ile
1117	610		. <u>.</u> u			615					620		-		
Glu	Val	Val	Glu	Lys	Met			Glu	Leu	Ser	Leu	Ser	Cys	Lys	Lys
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Thr Leu Glu Lys Glu Val Ala His Phe Phe Cys Thr Met Ala Trp Pro
                                                 45
Gln His Ser Leu Ser Asp Gly Glu Lys Trp Pro Pro Glu Gly Ser Thr
Asp Tyr Asn Thr Ile Leu Gln Leu Asp Leu Phe Cys Lys Arg Glu Gly
Lys Trp Ser Glu Ile Pro Tyr Val Gln Ala Phe Phe Ser Leu Lys Glu
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100

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Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu 65 70 75 80									
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Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp 100 105 110									
Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser 115 120 125									
Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu 130 135 140									
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Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile 165 170 175									
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Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu 195 200 205									

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                    230
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Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
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Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val 50 55 60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr 65 70 75 80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr 85 90 95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser 100 105 110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr 115 120 125

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Lys Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys 165 170 175

Phe Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly 180 185 190

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Trp Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn

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Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys

Ile Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn

Lys